



Course Specifications

Course Title:	Surgery
Course Code:	SUR481
Program:	Bachelor of Medicine, Bachelor of Surgery (MBBS)
Department:	NA
College:	College of Medicine
Institution:	Alfaisal University

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A. Course Identification

1. Credit hours: 9 (2+14+0)
2. Course type
a. University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: Sem 7/8, Year 4
4. Pre-requisites for this course (if any): Sem 5 and 6
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	40	13%
2	SGD, BST, Clinics, OR, Case reports, Morning reports, Grand rounds	260	87%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	40
2	Laboratory/Studio	
3	Tutorial	260
4	Others (specify)	
	Total	300

B. Course Objectives and Learning Outcomes

1. Course Description

The clerkship is organized to provide both a core general surgery experience as well as an opportunity to choose a shorter exposure to a variety of surgical subspecialties. This is a reflection of the dual objectives of surgical education and surgical career development. Students will participate in the preoperative, operative, and postoperative care of surgical patients.

Specialties participating in the program are the following:

- Colorectal Surgery
- Breast and Endocrine Surgery
- General & Oncology Surgery
- Hepato-pancreaticobiliary and Transplant Surgery
- Urology
- Vascular Surgery
- Pediatric Surgery
- Plastic Surgery
- Thoracic Surgery

Rotation also provides exposure to the surgical subspecialties to provide students with a broad overview of the diagnosis and management of surgical diseases.

2. Course Main Objective

To initiate student exposure to the disciplines of surgery, provide both a core general surgery experience as well as an opportunity to choose a shorter exposure to a variety of surgical subspecialties.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	To obtain the cognitive knowledge and clinical competencies to recognize patients need for surgical consultation.	PLO1,4,6
1.2	Describe indications for operative surgery and participating in the surgical procedures performance.	PLO7
1.3	Discuss the risks and benefits of common surgical procedures.	PLO7,
1.4	Identify the necessary diagnostic modalities to develop a preliminary plan of management.	PLO7,9,18
1.5	Describe and follow the structure of routine orders (admission, pre and post-op).	PLO6,15
1.6	Outline a plan of action for the management of surgical infection, with either surgery or a plan for antibiotics.	PLO12,18
2	Skills :	
2.1	Perform complete, accurate histories and physical examinations on surgical patients.	PLO13,14,15
2.2	Interpret laboratory, diagnostic tests, and radiological imaging studies associated with common surgical diseases accurately.	PLO5,18

CLOs		Aligned PLOs
2.3	Formulate from the history, physical exam, and patient studies, a differential diagnosis and develop an initial plan for further patient evaluation and management.	PLO18,29,30
2.4	Maintain complete and legible patient care related documentation including writing inpatients progress notes.	PLO18
2.5	Demonstrate medical communication skills by performing satisfactorily (accurate and concise) oral presentations.	PLO13
2.6	Demonstrate proficiency in the preoperative preparation of patients for surgery and routine post-operative care with guidance by faculty staff.	PLO18,23,25
3	Values:	
3.1	Observe informed consent process noting potential effects of physician-patient power imbalance, cultural disparities and bias.	PLO27
3.2	Actively participate as a member of the surgical health care team.	PLO25
3.3	Follow established practices, procedures and policies of the Department of Surgery.	PLO19,20,21,25
3.4	Recognize and describe own role and the roles of other members of the team.	PLO25
3.5	Act in an ethical manner and identify ethical issues related to patient care and health policies.	PLO27,28
3.6	Demonstrate interpersonal skills necessary to maintain professionalism, communicate appropriately with patients, their families, and other medical and paramedical personnel involved in patient care.	PLO19,21,24,25
3.7	Adhere to the attendance policy.	

C. Course Content

No	List of Topics	Contact Hours
1	Flaps and Grafts	6
2	Surgical Anatomy of the Gastrointestinal System	6
3	Benign and Malignant Breast Disease	6
4	Goiter and Malignant Thyroid Disease	6
5	Congenital Urinary Tract Abnormalities	6
6	Chest and Abdomen Imaging	4
7	Aneurysms	6
8	Aortic Dissection	6
9	Principle of Transplant	6
10	Non Gastrointestinal Congenital Disease (<i>Thyroglossal Cyst, CCAM, Congenital Lobar Emphysema</i>)	6
11	Gastro Intestinal Congenital Diseases (<i>Atresia-Malrotation-Hirschsprung's Disease</i>)	6
12	Adrenal Mass	4
13	Hepatobiliary Neoplasm	6
14	Skin Tumors	6
15	Portal Hypertension	6
16	Clinical Aspect of Burns	6
17	Wound Healing, Wound Care and Wound Infection	6
18	Lung Masses (Benign and Malignant)	6

19	Ischemic Limb Disease	6
20	Gall Stones Disease	6
21	Post-Operative Complications	6
22	Surgical Infections	6
23	Pancreatitis	6
24	Peptic Ulcer Diseases (PUD)	4
25	Male Infertility	6
26	UTI (Cystitis, Prostatitis, Urethritis, Pyelonephritis)	6
27	Nephrolithiasis	6
28	Parathyroid Disease	6
29	Obstructive Uropathy	6
30	Urinary Neoplasm	6
31	Inflammatory Bowel Disease	6
32	Perianal Disease	6
33	Colorectal Cancer	6
34	Surgical Management of Obesity	4
35	Preoperative Assessment and Management	6
36	Hernia	6
37	Abdominal Trauma (GI and Renal)	6
38	Approach to Abdominal Pain	6
39	Trauma (General)	6
40	Inguino-Scrotal Swellings (Scrotum, Testicles and Groin Hernias)	6
41	Common Breast Presentation (Nipple Discharge, Breast Pain, Breast Mass, and Mammographic Calcifications)	6
42	Thoracic Trauma / Neck	4
43	Stomas, Indication & Complication, and Stoma Care	6
44	Post-operative Fever	4
45	Vomiting Child	6
46	Renal Colic	6
47	Hernias in Children, Abdominal Wall Defects and Diaphragmatic Hernia	6
48	Approach to Urological Case	6
49	Esophageal Disease (stricture / achalasia)	6
50	Leg Ulcers	6
51	Urinary Retention and Anuria	6
52	Carotid Disease and Stroke	6
Total		300

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	To obtain the cognitive knowledge and clinical competencies to recognize patients need for surgical consultation.	Lectures, SGDs	Formative and summative assessment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.2	Describe indications for operative surgery and participating in the surgical procedures performance.	Lectures, SGDs	Formative and summative assessment
1.3	Discuss the risks and benefits of common surgical procedures.	Lectures, SGDs	Formative and summative assessment
1.4	Identify the necessary diagnostic modalities to develop a preliminary plan of management.	Lectures, SGDs	Formative and summative assessment
1.5	Describe and follow the structure of routine orders (admission, pre and post-op).	Lectures, SGDs	Formative and summative assessment
1.6	Outline a plan of action for the management of surgical infection, with either surgery or a plan for antibiotics.	Lectures, SGDs	Formative and summative assessment
2.0	Skills		
2.1	Perform complete, accurate histories and physical examination on surgical patients.	BST, Case reports	Continuous, formative and summative assessment
2.2	Interpret laboratory, diagnostic tests and radiological imaging studies associated with common surgical diseases accurately.	BST, Case reports	Continuous, formative and summative assessment
2.3	Formulate from the history, physical exam, and patient studies, a differential diagnosis and develop an initial plan for further patient evaluation and management.	BST, Case reports	Continuous, formative and summative assessment
2.4	Maintain complete and legible patient care related documentation including writing inpatients progress notes.	BST, Case reports	Continuous, formative and summative assessment
2.5	Demonstrate medical communication skills by performing satisfactory (accurate and concise) oral presentations.	BST, Case reports	Continuous, formative and summative assessment
2.6	Demonstrate proficiency in the preoperative preparation of patients for surgery and routine post-operative care with guidance by faculty staff.	BST, Case reports	Continuous, formative and summative assessment
3.0	Values		
3.1	Observe informed consent process noting potential effects of physician-patient power imbalance, cultural disparities and bias.	SGD, BST	Continuous, formative and summative assessment
3.2	Actively participate as a member of the surgical health care team.	SGD, BST	Continuous, formative and

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
			summative assessment
3.3	Follow established practices, procedures and policies of the Department of Surgery.	SGD, BST	Continuous, formative and summative assessment
3.4	Recognize and describe own role and the roles of other members of the team.	SGD, BST	Continuous, formative and summative assessment
3.5	Act in an ethical manner and identify ethical issues related to patient care and health policies.	SGD, BST	Continuous, formative and summative assessment
3.6	Demonstrate interpersonal skills necessary to maintain professionalism, communicate appropriately with patients, their families, and other medical and paramedical personnel involved in patient care.	SGD, BST	Continuous assessment
3.7	Adhere to the attendance policy.		Continuous assessment

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Case-reports	1-9	5%
2	Weekly evaluation (clinics, OR, morning rounds, grand rounds, presentations)	1-9	5%
3	Final Exam (including OSCE)	9	90%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

The CoM program established its own mentorship program that employs all full-time faculty as mentors. Through this program, every medical student in the program is assigned a mentor at the beginning of their first semester of studies. The program has a broad scope covering academic advising and counseling. The mentors handle all aspects related to academic advising, including academic planning, academic performance review, advice on course drop or withdrawal, study skills, and time management.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> • Browse NL, Black J, Burnand KG. An Introduction to the Symptoms & Signs of Surgical Diseases. 4th ed.; 2005
Essential References Materials	<ul style="list-style-type: none"> • Cameron JL, Cameron A. editors. Current Surgical Therapy. Elsevier Health Sciences; 2010 • The Washington Manual of Surgery, 5th Edition, 2008. Mary E. Klingensmith, Li Ern Chen, Sean C. Glasgow, Trudie A. Goers, Spencer J. Melby • Lawrence PF, editor – Essential of general Surgery. Lippincott Williams & Wilkins; 2006 6. Zollinger RM, Ellison EC, editors. Zollinger’s Atlas of Surgical Operations. 9th ed. McGraw-Hill Companies; 2011 7. Gallinger S., Buduhan G. and Minor S. – Editors, Dana McKay – Associate Director. MCCQE 2000 Review Notes & Lecture Series. • Step-Up to Surgery (Step-Up Series), David W. McFadden, Stanley Zaslau
Electronic Materials	<p>PowerPoint presentations uploaded on Alfaisal E-learning Portal</p> <p>Educational Links:</p> <ul style="list-style-type: none"> • American College of Surgeons • MedBioWorld • WISE-MD • eRadiology <p>Journal Links - through the KFSH&RC Acknowledge Library Access</p> <ul style="list-style-type: none"> • American Journal of Surgery • Annals of surgery • British Journal of Surgery • Contemporary Surgery • Current Problems in Surgery • Journal of Surgery • Journal of Pediatric Surgery • Surgical Clinics of North America • The Internet Journal of Surgery
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms
Technology Resources	AV (Audio-Visual), Smartboard, Moodle (E-learning Management)

Item	Resources
(AV, data show, Smart Board, software, etc.)	
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course and Faculty Evaluation Survey	Students	Survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	